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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,127	06/07/2006	Dong-Hyuk Lee	CMP-0008-SE	2190
82727 Jae Y. Park	7590 02/15/201	1	EXAMINER	
Kile Park Goekjian Reed & McManus PLLC			KHOSHNOODI, NADIA	
	1200 New Hampshire Ave. NW, Suite 570 Washington, DC 20036		ART UNIT	PAPER NUMBER
			2437	
			MAIL DATE	DELIVERY MODE
			02/15/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/582,127	LEE, DONG-HYUK		
Office Action Summary	Examiner	Art Unit		
	NADIA KHOSHNOODI	2437		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	ely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status				
 1) ☐ Responsive to communication(s) filed on 25 Oc 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
 4) ☐ Claim(s) 1-4 and 8-12 is/are pending in the approach 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 and 8-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or 	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 10 March 2010 is/are: a Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	a) \square accepted or b) \square objected to drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1)	4) 🔲 Interview Summary			
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/4/2010 has been entered.

Response to Amendment

Claims 5-7 have been cancelled. Applicant's arguments/amendments with respect to pending claims 1-4 & 8-12 filed 10/25/2010 have been fully considered but are moot in view of new grounds rejection.

Claim Rejections - 35 USC § 101

I. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

II. Claim 10 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter, as it does not fall under any of the statutory classes of inventions. This claim is directed towards a computer-readable recording medium which is not limited to falling under the statutory classes of invention set forth. Currently, based on USPTO Policy, a signal is not recognized as falling under one of the statutory classes of invention. When the computer readable medium is not specifically defined as non-transitory in the Specification the

broadest reasonable interpretation is used according to MPEP 2111, thus the computer readable recording medium may embody signals, i.e. transitory media. Examiner suggests that Applicants amend the claims to add a limitation to direct the language of the 'computer readable recordable medium' claim to only include the non-transitory embodiment which would remove the possibility of claiming signals by incorporating the term "non-transitory" or by claiming a "computer recordable **device.**"

Claim Rejections - 35 USC § 103

- III. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- IV Claims 1, 4, and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taylor et al., US Patent No. 6,728,885 and further in view of Malcolm, US Patent No. 7,146,638. As per claims 1, 4, and 10:

Taylor et al. substantially teach a network security system/method/computer-readable recording medium comprising: a port monitoring unit for extracting information about a server port being used by a network communication program (col. 5, lines 33-36); an internal permitted program storage for extracting information about a program for which communication is permitted by the firewall, and registering the extracted information (col.5, line 66 – col. 6, line 12); an internal permitted port storage registering the extracted information about the server port

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if the network communication program extracted from the information about the server port is registered in the internal permitted program storage (col. 6, lines 13-25); and wherein the firewall flexible device further determines whether a destination port of a packet of inbound traffic has been registered in the internal permitted port storage and blocks the packet if inbound traffic if the destination port has not been registered (col. 5, line 66 - col. 6, line 20; col. 10, line 57 – col. 11, line 3; and Fig. 4, elements 303, 311, & 321).

Not explicitly disclosed is where the internal permitted program storage stores a list of programs permitted to have server ports registered by the firewall, wherein the internal permitted program storage adds a program/program information to the list and a firewall flexible device for determining whether the network communication program is registered in the list of programs stored in the internal permitted program storage, where the firewall flexible device determines that the network communication program is registered in the list of programs. However, Malcolm teaches a firewall device maintaining a list of application programs who are attempting to connect to a particular server port, where application programs are added to the list and where the firewall determines whether the application program is registered in the list of programs stored (col. 9, lines 38-52). Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the method disclosed in Taylor et al. to store a list of permitted programs registered by the firewall and to have the firewall determine whether the network communication program is registered in the list of programs stored in the internal permitted program storage. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since Malcolm suggests that maintaining a list of application programs which are permitted to

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access particular ports ensures that only authorized application programs gain access to the network in col. 7, lines 27-33 and col. 9, lines 38-52.

As per claims 11-12:

Taylor et al. and Malcolm substantially teach the network security system/method as set forth in claims 1 and 4. Furthermore, Taylor et al. teach wherein the firewall flexible device allows the packet of inbound traffic to bypass the firewall if the destination port has been registered (col. 10, line 63 - col. 11, line 15).

V. Claims 2-3 and 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taylor et al., US Patent No. 6,728,885 and Malcolm, US Patent No. 7,146,638 as applied to claims 1 and 4 above, and further in view of Yadav, US Pub. No. 2003/0149887.

As per claims 2 and 8:

Taylor et al. and Malcolm substantially teach the network security system as set forth in claims 1 and 4. Furthermore, Taylor et al. teach wherein the information about the program includes information about the program name (col. 5, lines 18-65). Not explicitly disclosed is wherein the information about the program, which is extracted and registered in the internal permitted program storage, includes information about an entire path of the program, and a program hash value. However, Yadav teaches that an application communicating over a network may be identified by its entire path and message digest hash value (par. 45). Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the method disclosed in Taylor et al. to register the entire path of the program, in addition to an MD5 hash value in the internal permitted program storage. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have

been motivated to do so since Yadav suggests that the file path and the hash value may be used in successfully identifying an application and determining if the application is authorized or not for intrusion detection purposes in par. 46.

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As per claims 3 and 9:

Taylor et al. and Malcolm substantially teach the network security system as set forth in claims 1 and 4. Furthermore, Taylor et al. teach where the information about the server port stored in the internal permitted port storage includes a protocol and a port (col. 7, lines 4-67). Not explicitly disclosed is wherein the information about the server port, which is registered in the internal permitted port storage, includes information about at least one of an entire path of the program. However, Yadav teaches that an application communicating over a network may be identified by its entire path (par. 45). Therefore, it would have been obvious to a person in the art at the time the invention was made to modify the method disclosed in Taylor et al. to register the entire path of the program in the internal permitted program storage. This modification would have been obvious because a person having ordinary skill in the art, at the time the invention was made, would have been motivated to do so since Yadav suggests that the file path may be used in successfully identifying an application and determining if the application is authorized or not for intrusion detection purposes in par. 46.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nadia Khoshnoodi whose telephone number is (571) 272-3825. The examiner can normally be reached on M-F: 8:00-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nadia Khoshnoodi/ Examiner, Art Unit 2437 2/12/2011

NK

/Emmanuel L. Moise/ Supervisory Patent Examiner, Art Unit 2437